UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

### NOTICE OF ALLOWANCE AND FEE(S) DUE

$\sim$	1	1	7	1

7590

10/13/2009

FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER

VU, DAVID

ART UNIT PAPER NUMBER

2818

DATE MAILED: 10/13/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,899	09/23/2003	Akiharu Miyanaga	07977-0254003	8644

TITLE OF INVENTION: SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/13/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

ppropriate. All further ndicated unless correcte naintenance fee notifica	correspondence including below or directed oth tions.	g the Patent, advance of erwise in Block 1, by (a	rders and notification of specifying a new co	of m	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND	I	Fee(s paper	) Transmittal. This s. Each additional	s certif paper	icate cannot be used for	domestic mailings of the or any other accompanying at or formal drawing, must		
26171	7590 10/13	/2009	1	aure			e of Mailing or Transn	niccian
FISH & RICHA P.O. BOX 1022 MINNEAPOLIS	ARDSON P.C. 6, MN 55440-1022		] S 8 t	I here States addre transi	by certify that this Postal Service we seed to the Mail mitted to the USPI	s Fee(sith suf Stop O (57	s) Transmittal is being ficient postage for first ISSUE FEE address: 1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
								(Depositor's name)
								(Signature)
			[					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/667,899	09/23/2003	•	Akiharu Miyanaga	ı		0	7977-0254003	8644
		DEVICE AND METHOD					TOTAL FINANCIA	T PAGE DATE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	_	\$0		\$1810	01/13/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	Ш				
VU, D		2818	257-404000					
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, altern (2) the name of a si registered attorney	s of up to 3 registered patent attorneys alternatively, of a single firm (having as a member a orney or agent) and the names of up to atent attorneys or agents. If no name is				
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on th	e pat	ent. If an assigne ssignment.			ocument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity Government
a. The following fee(s) are submitted:  Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			o. Payment of Fee(s): (I  A check is enclose Payment by credit The Director is her overpayment, to D	ed. card	. Form PTO-2038	is atta	iched. required fee(s), any def	·
_ ~ .	<b>tus</b> (from status indicated s SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no.	longe	er claiming SMAI	LEN	ГІТҮ status. See 37 СF	(R 1.27(α)(2)
NOTE: The Issue Fee an	d Publication Fee (if requ		d from anyone other th	_	-			e assignee or other party in
Authorized Signature					Date			
Typed or printed name					•			
his collection of inform n application. Confiden ubmitting the completed nis form and/or suggesti Sox 1450, Alexandria, V Nexandria. Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR (	on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS	or re s estin ndivid fficer S TO	tain a benefit by the nated to take 12 nd dual case. Any cod, U.S. Patent and THIS ADDRESS	ne publ ninutes mment Fraden . SENI	lic which is to file (and to complete, including to on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.		
10/667,899	09/23/2003	Akiharu Miyanaga	07977-0254003	8644		
26171 75	71 7590 10/13/2009		EXAMINER			
FISH & RICHAI	RDSON P.C.	VU, D	AVID			
P.O. BOX 1022		ART UNIT PAPER NUMBER				
MINNEAPOLIS, MN 55440-1022			2818			
		DATE MAILED: 10/13/2009				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/667,899	MIYANAGA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DAVID VU	2818	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	ppears on the cover sheet was IS (OR REMAINS) CLOSED B5) or other appropriate common RIGHTS. This application is	rith the correspondence address in this application. If not included nunication will be mailed in due course.	
1. This communication is responsive to <u>07/24/09</u> .			
2. ☑ The allowed claim(s) is/are <u>43-58,60 and 61</u> .			
3.  Acknowledgment is made of a claim for foreign priority  a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents had 2.  Certified copies of the priority documents had 3.  Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be suffixed in the properties of the priority will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  CORRECTED DRAWINGS (as "replacement sheets") in (a)  including changes required by the Notice of Draftsperior including changes required by the attached Examination Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFI	ave been received.  ave been received in Applicate documents have been received.  E" of this communication to fin NMENT of this application.  comitted. Note the attached Expires reason(s) why the oath must be submitted.  erson's Patent Drawing Review.  er's Amendment / Comment of the commen	ion No. 09/246,014.  ed in this national stage application from le a reply complying with the requirement  (AMINER'S AMENDMENT or NOTICE or declaration is deficient.  ew ( PTO-948) attached  or in the Office action of	ents OF
each sheet. Replacement sheet(s) should be labeled as such i  6. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN	n the header according to 37 C posit of BIOLOGICAL MA	FR 1.121(d). FERIAL must be submitted. Note the	
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 07/24/09</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material</li> </ul>	8) 6. ☐ Interview Paper No 7. ☐ Examiner'	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	
/DAVID_VU/			
Primary Examiner, Art Unit 2818			